

Complaint, Exhibit 2


Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

U.S. Patent No. US 9,384,671 v. Bushnell
Claim 1 Exemplary

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell**1. Claim Chart**

Claim	Analysis
<p>[1.P] A system, comprising: a component set; and a housing, comprising</p>	<p>Bushnell (“Company”) makes, uses, sells, and/or offers to sell a system, comprising: a component set; and a housing.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, Company provides Launch Pro (“housing”), a golf monitor that uses FSX software, installed in a mobile device such as a PC (“component set”), that allows users to track their golf swing and ball flight performance. Further, the Launch Pro combines proprietary high-speed/high-resolution cameras with infrared optimized in an auto-calibrating three-camera system to deliver Tour-level performance and accuracy on every shot.</p> <div data-bbox="420 703 1171 1349">  </div> <p>Source: https://www.bushnellgolf.com/launch-pro (annotated)</p>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell



Source: <https://www.bushnellgolf.com/launch-pro>

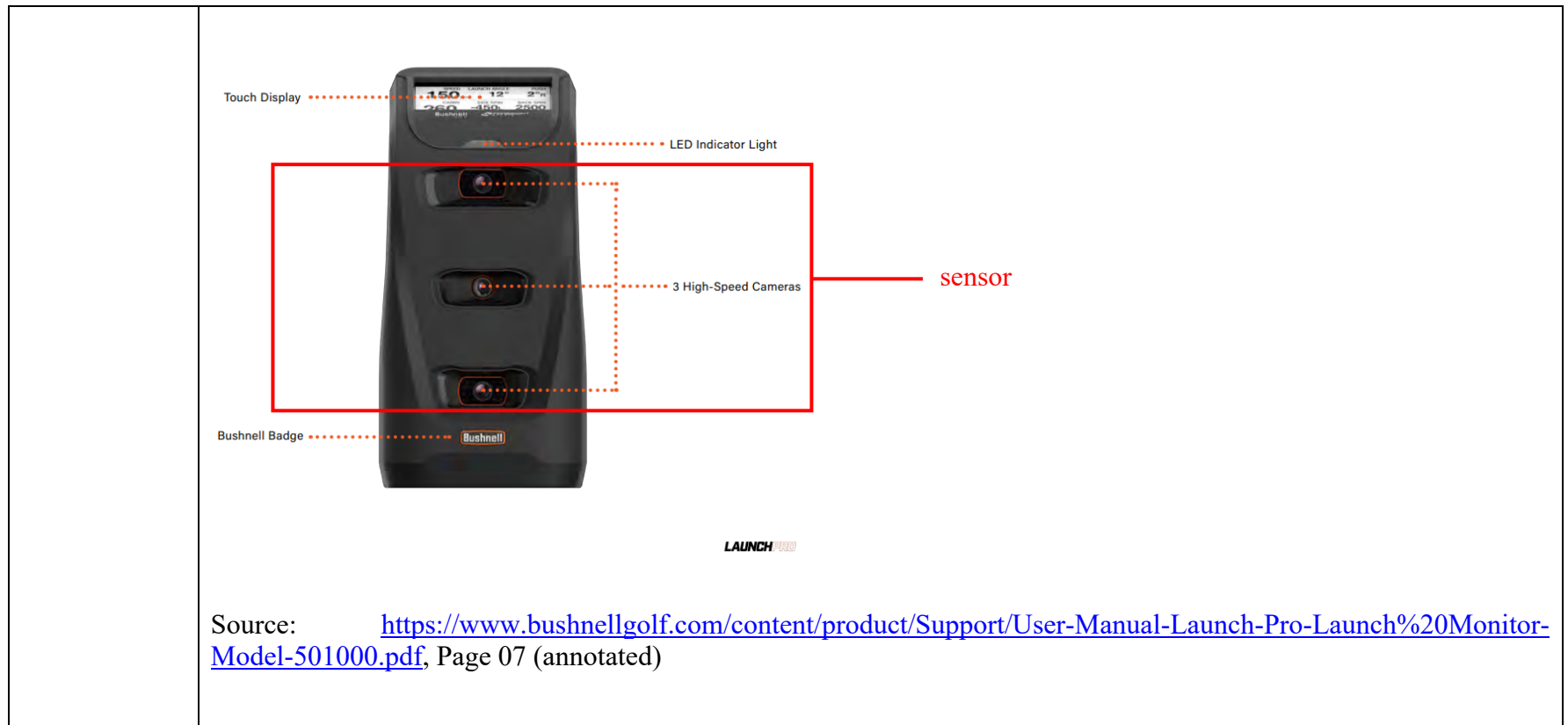
Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

	<p>ACCURACY ABOVE ALL</p> <p>Your pursuit of longer drives, more accurate carries and lower scores requires knowing the critical data points of your swing. Using a personal launch monitor will give you these data points, however, not all launch monitors are created equal.</p> <p>Unlike radar-based systems that set up behind the golfer and rely on algorithms to guess what happened at impact, the Launch Pro combines proprietary high speed/high resolution cameras with infrared which has been optimized in an auto calibrating three-camera system to deliver Tour-level performance and accuracy on every shot. We literally see impact like never before and this allows you to trust your swing when it matters most.</p> <p>Source: https://www.bushnellgolf.com/products/launch-monitors/launch-pro/</p> <p>Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.</p>
<p>[1.1] a sensor that, at least partially, captures an actual action of a user, and</p>	<p>Company provides a sensor that, at least partially, captures an actual action of a user.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the Launch Pro consists of infrared cameras ("sensor") that precisely measure every hit ("an actual action of a user") performed by the player or user.</p>

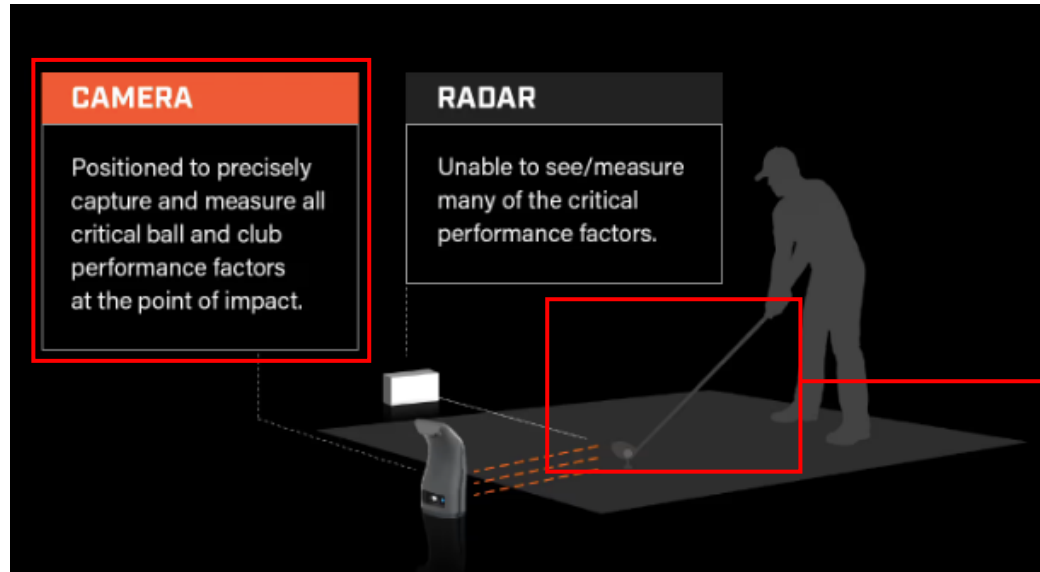
Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell



Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell



Source: <https://www.bushnellgolf.com/launch-monitors/> (annotated)

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

	<p>ACCURACY ABOVE ALL</p> <p>Your pursuit of longer drives, more accurate carries and lower scores requires knowing the critical data points of your swing. Using a personal launch monitor will give you these data points, however, not all launch monitors are created equal.</p> <p>Unlike radar-based systems that set up behind the golfer and rely on algorithms to guess what happened at impact, the Launch Pro combines proprietary high speed/high resolution cameras with infrared which has been optimized in an auto calibrating three-camera system to deliver Tour-level performance and accuracy on every shot. We literally see impact like never before and this allows you to trust your swing when it matters most.</p> <p>Source: https://www.bushnellgolf.com/products/launch-monitors/launch-pro/</p> <p>Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.</p>
[1.2] hardware that couples the housing to at least one of the user, equipment used by the user in performance of the actual action of the user, or a combination thereof; and	<p>Company provides a housing, comprising hardware that couples the housing to at least one of the user, equipment used by the user in performance of the actual action of the user, or a combination thereof.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the Launch Pro ("housing, comprising hardware") is used by the user to capture and track every shot played by the user. Therefore, upon information and belief, the housing is coupled to the equipment used by the user to play golf.</p>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

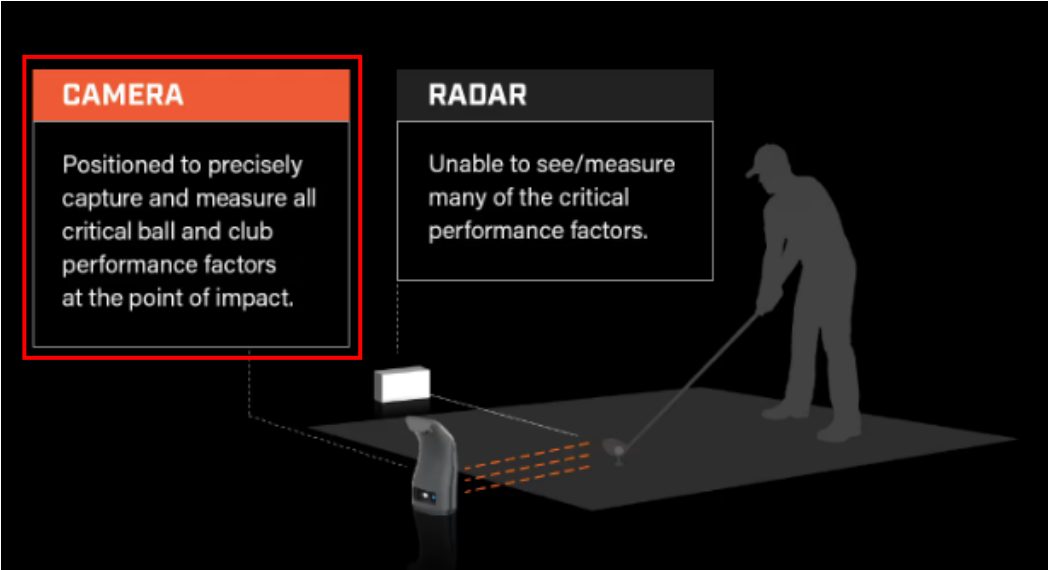


housing,
comprising
hardware

Source: <https://www.bushnellgolf.com/support/product-plm-launch-pro> (annotated)

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

	 <p>Source: https://www.bushnellgolf.com/launch-monitors/</p> <p>Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.</p>
<p>[1.3] communication hardware that communicates the actual action of the user to the component set,</p>	<p>Company provides a housing, comprising: communication hardware that communicates the actual action of the user to the component set.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the Launch Pro comprises a Wi-Fi or Ethernet communication interface ("communication hardware") to connect with other devices such as the PC such that it communicates the captured or sensed data related to golf shots ("the actual action of the user") to the PC ("the component set").</p>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

ELECTRONICS

DISPLAY TYPE: Standard Transflective LCD

TOUCHSCREEN: YES

BATTERY LIFE: 5-7 Hours

CHARGING PORT: A/C Power Adapter

NETWORK CONNECTIVITY Wi-Fi or internet enabled PC

PC CONNECTIVITY Ethernet or USB-C Cable

MOBILE DEVICE CONNECTIVITY Wi-Fi

Source: <https://www.bushnellgolf.com/products/launch-monitors/launch-pro/>

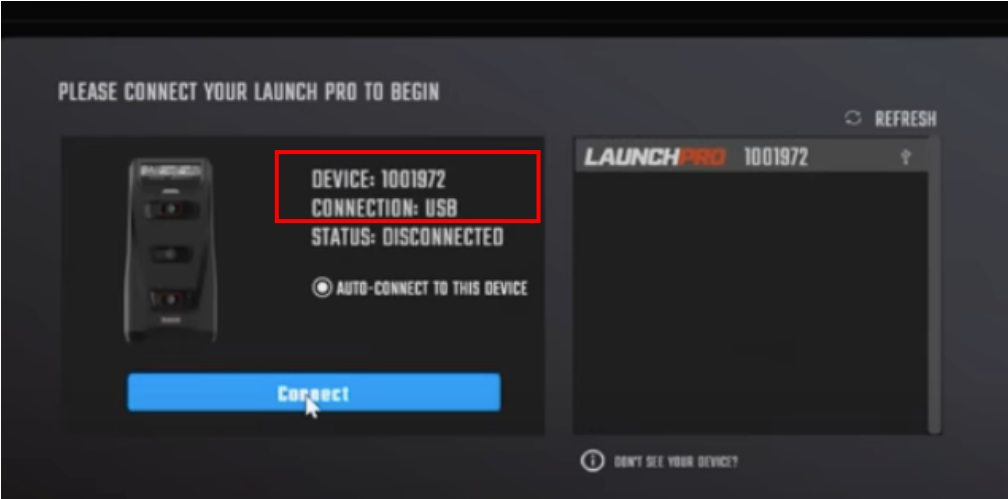
The first time you power up your Launch Pro, you will be prompted to connect to the internet. There are four ways to connect:

WiFi (wireless network), Ethernet cable to a PC, the provided USB-C cable, or connecting to a mobile device using WiFi. The preferred methods to connect are WiFi or Ethernet Network Cable.

Source: <https://www.bushnellgolf.com/support/product-plm-launch-pro>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

	 <p>Source: https://www.youtube.com/watch?v=MOXNM_gA8xk, at 0:49</p> <p>Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.</p>
<p>[1.4] the component set comprising: a comparison component that: compares the actual action of the user against a first standard action to</p>	<p>Company provides the component set comprising: a comparison component that: compares the actual action of the user against a first standard action to produce a first comparison result.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the FSX software installed on the PC tracks the Ball launch data ("first standard action") such as Carry distance, ball speed, total spin, back spin, and side spin from the captured images shared by the Launch Pro and compares it with the next captured image to determine the difference ("first comparison result") when the shot is performed ("actual action of the user"). Therefore, it would be apparent to a person having ordinary skill in the art that the FSX software comprises a comparison component that compares the tracked shot ("the actual action of the user") against the Ball launch data.</p>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

produce a first
comparison
result, and



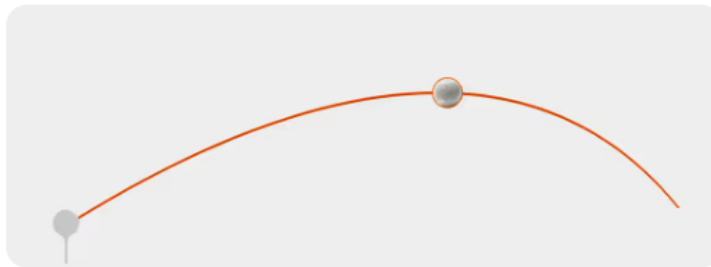
Source: <https://www.bushnellgolf.com/launch-pro>

Complaint, Exhibit 2
Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

BALL LAUNCH DATA

Ball launch data is measured by capturing images of the ball to model it in real time, and comparing it to the next captured image to determine exactly what the ball is doing post-impact. Here are the Launch Pro's key club and ball performance metrics we measure.

Source: <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>

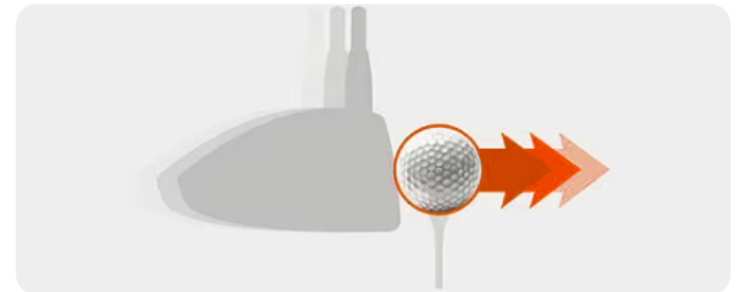


CARRY DISTANCE

The amount of distance the ball travels through the air.

BALL SPEED

The measurement of the golf ball's velocity just after impact. Ball speed is the main component in generating distance.



Source: <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

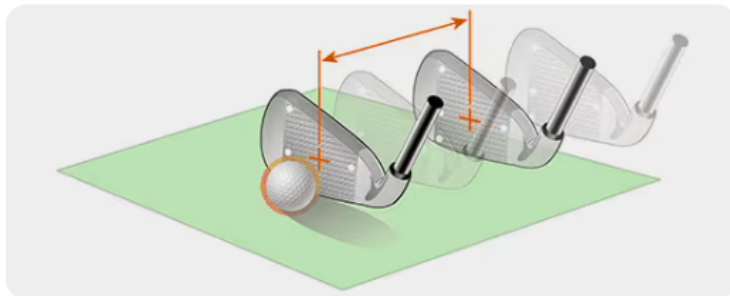
Vista Outdoor, Inc. dba Bushnell

	Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.
[1.5] compares the actual action of the user against a second standard action to produce a second comparison result;	<p>Company provides the component set comprising: a comparison component that: compares the actual action of the user against a second standard action to produce a second comparison result.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the FSX software tracks the Club data ("second standard action") such as club head speed, smash factor, club path, and angle of attack from the captured images shared by the Launch Pro. Therefore, upon information and belief, it compares the measured club data with the standard club data to determine the difference ("second comparison result") when the shot is performed ("actual action of the user"). Therefore, it would be apparent to a person having ordinary skill in the art that the FSX software comprises a comparison component that compares the tracked shot ("the actual action of the user") against the Club data.</p> <p style="text-align: center;">CLUB DATA</p> <p>The Launch Pro doesn't just look at the ball, but place one of the included markers to the face of your club to get accurate and consistent club data previously only attainable at much higher price points.</p> <p>Source: https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data</p>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

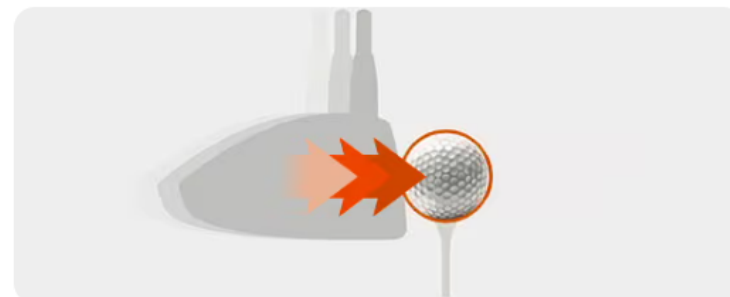


CLUB HEAD SPEED

The velocity at which the head travels, measured just prior to ball contact.

SMASH FACTOR

Smash Factor, also known as Efficiency, is the ratio between club head and golf ball velocities.



Source: <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell



CLUB PATH*

The swing path measured in a horizontal plane relative to the target line. This data point will tell you if the club was moving from inside-out, outside-in, or perfectly down the line.

ANGLE OF ATTACK*

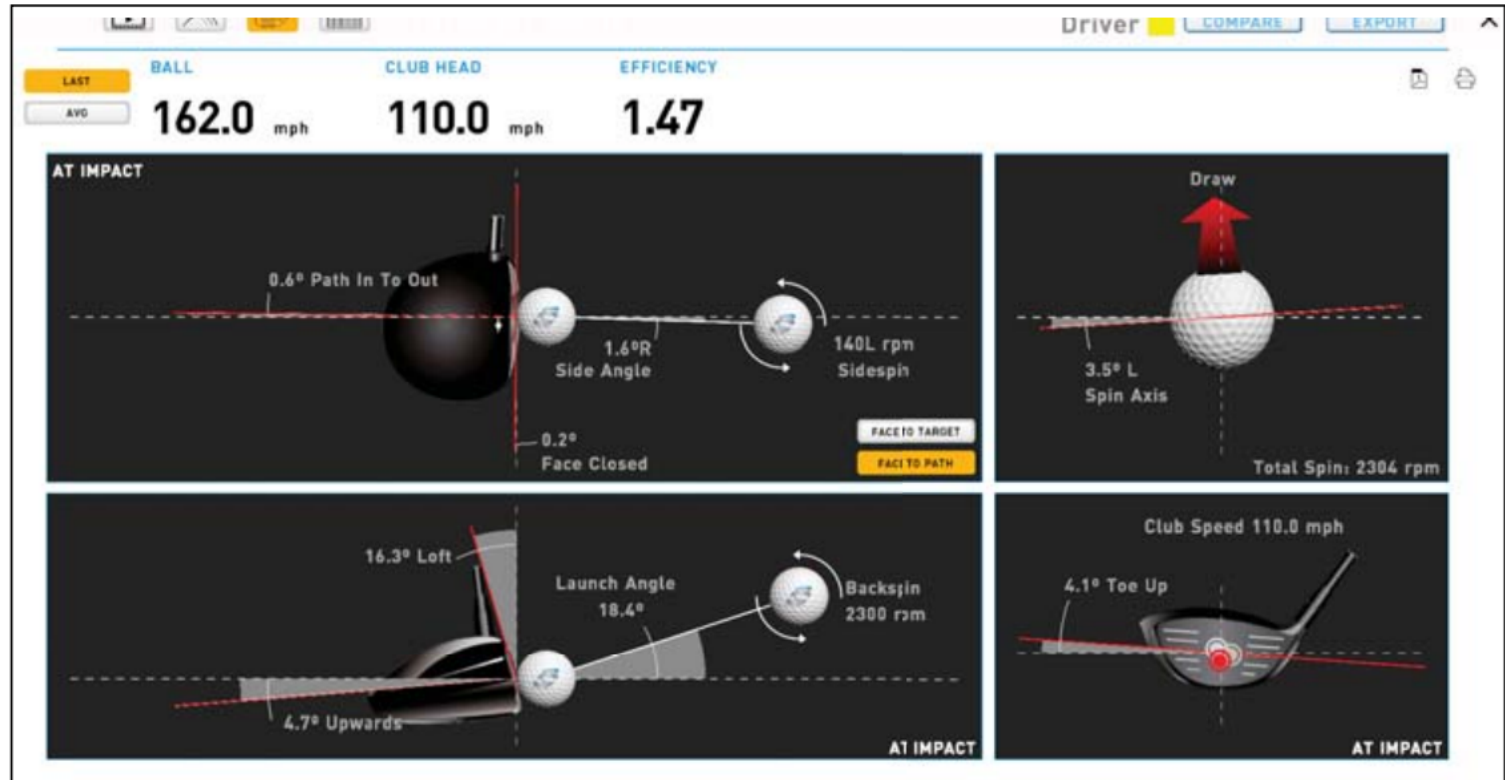
The descending or ascending path of the club head, measured in degrees. A positive number is hitting up on the ball and a negative number is hitting down on the ball.



Source: <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>

Complaint, Exhibit 2
Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

Analysis: Club Data



Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 16

Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

<p>[1.6] a difference component that: makes an identification of a deviation between the actual action of the user and the first standard action of the user through use of the first comparison result, and</p>	<p>Company provides a difference component that: makes an identification of a deviation between the actual action of the user and the first standard action of the user through use of the first comparison result.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, while the shot is performed (“the actual action of the user”), the FSX software tracks the ball launch data (“the first standard action”) by capturing images of the ball and compares it to the next captured image to determine post impact of the ball (“deviation”). Therefore, it would be apparent to a person having ordinary skill in the art that the FSX software comprises a difference component that measures the deviation through using the difference (“the first comparison result”) between multiple captured images in tracking the Ball launch data.</p> <p style="text-align: center;">BALL LAUNCH DATA</p> <div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> <p>Ball launch data is measured by capturing images of the ball to model it in real time, and comparing it to the next captured image to determine exactly what the ball is doing post-impact. Here are the Launch Pro's key club and ball performance metrics we measure.</p> </div> <p>Source: https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data</p>
--	---

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

Analysis: Shot Table

The shot table displays all shots that have been taken during the current session. All shots are grouped by club. You can toggle between flight and club data at any time by selecting the corresponding option at the top left of the screen. You can view the video, flight, or club analysis screens from a previous shot by left-clicking on the corresponding line of data.

The screenshot shows the FSX Shot Table interface. At the top, there are icons for video, flight, and club analysis, and buttons for 'COMPARE' and 'EXPORT'. Below these are tabs for 'FLIGHT' and 'CLUB'. The table displays shot data for two drivers: Driver (yellow icon) and Driver2 (red icon). The columns include ID, BALL SPEED (mph), LAUNCH ANGLE, SIDE ANGLE, BACKSPIN (rpm), SIDESPIN (rpm), DESCENT ANGLE, OFFLINE (yds), PEAK (yds), CARRY (yds), and TOTAL (yds). Each row also has a 'DELETE' icon on the left and a 'DISABLE' checkbox on the right. Summary rows for 'AVERAGE' and 'STD. DEV.' are provided for each driver's group.

ID	BALL SPEED (mph)	LAUNCH ANGLE	SIDE ANGLE	BACKSPIN (rpm)	SIDESPIN (rpm)	DESCENT ANGLE	OFFLINE (yds)	PEAK (yds)	CARRY (yds)	TOTAL (yds)
Driver	156.0	17.5°	2.6° R	2450	450 L	47.6°	12.7 L	49	269	284
Driver	158.0	17.2°	4.3° R	2200	540 L	45.9°	12.3 L	47	277	294
Driver	162.0	18.4°	1.6° R	2300	140 L	48.4°	1.4 R	55	286	301
AVERAGE	158.7	17.7°	2.8° R	2317	377 L	47.3°	7.8 L	51	277	294
STD. DEV.	2.5	0.5°	1.1°	103	171	1.0°	6.6	3	7	8
Driver2	153.0	15.3°	5.0° R	2500	900 L	44.5°	23.7 L	40	255	271
Driver2	154.0	15.3°	6.0° R	2463	855 L	44.5°	17.4 L	41	259	274
Driver2	155.0	16.0°	4.0° R	2250	965 L	44.3°	36.1 L	41	262	271
AVERAGE	154.0	15.5°	5.0° R	2404	917 L	44.4°	25.7 L	41	259	271
STD. DEV.	0.8	0.3°	0.8°	110	45	0.1°	7.7	0	3	3

Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 15

Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.

[1.7] makes an identification of a deviation between the actual action of the user and the second standard action of the

Company provides a difference component that: makes an identification of a deviation between the actual action of the user and the second standard action of the user through use of the second comparison result.

This element is infringed literally, or in the alternative, under the doctrine of equivalents.

For example, upon information and belief, the FSX software comprises a difference component that measures the deviation by using the difference ("the second comparison result") between club data for multiple shots ("the actual action") and the standard club data ("the second standard action").

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

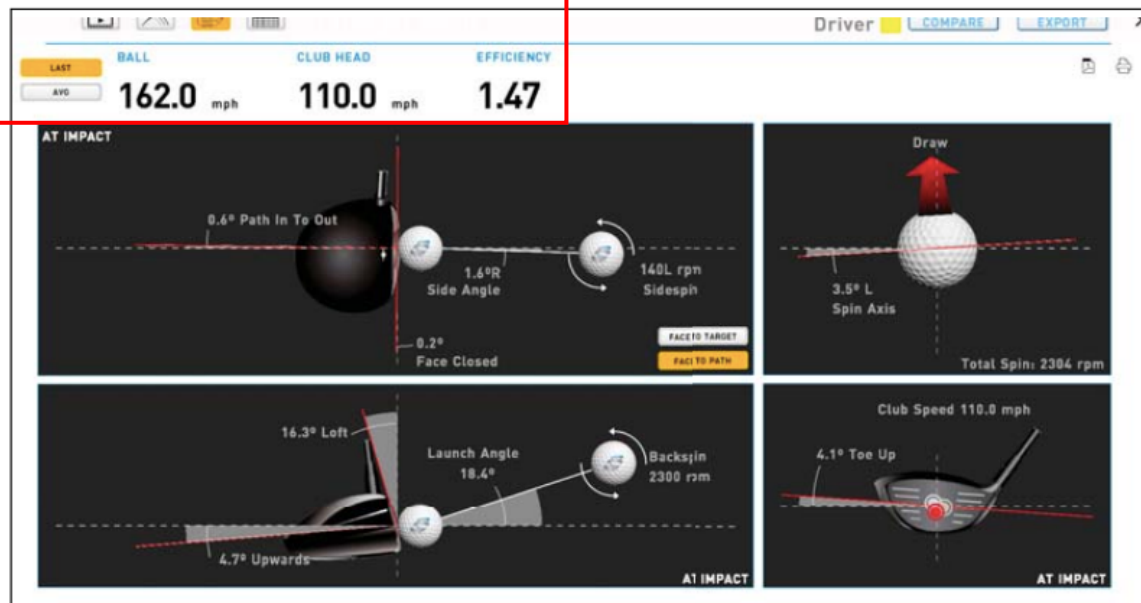
user through
use of the
second
comparison
result;

CLUB DATA

The Launch Pro doesn't just look at the ball, but place one of the included markers to the face of your club to get accurate and consistent club data previously only attainable at much higher price points.

Source: <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>

Analysis: Club Data



Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.

Vista Outdoor, Inc. dba Bushnell

	<p>Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 16</p> <p>Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.</p>
<p>[1.8] a selection component that selects a selected standard action for the user based, at least in part, on a smaller deviation of the deviation between the actual action of the user and the first standard action and the deviation between the actual action of the user and the second standard action;</p>	<p>Company provides a selection component that selects a selected standard action for the user based, at least in part, on a smaller deviation of the deviation between the actual action of the user and the first standard action and the deviation between the actual action of the user and the second standard action.</p> <p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the FSX software measures both the ball launch data and the club data and allows the user to access the ball and the club data such that the user's game is improved. Therefore, upon information and belief, the software comprises a selection component that selects a selected standard action for the user in the form of a recommended strategy, based, at least in part, on a smaller deviation between the deviations calculated on the basis of the ball launch data and the club data.</p> <p style="text-align: center;">BALL LAUNCH DATA</p> <p style="border: 1px solid red; padding: 2px;">Ball launch data is measured by capturing images of the ball to model it in real time, and comparing it to the next captured image to determine exactly what the ball is doing post-impact. Here are the Launch Pro's key club and ball performance metrics we measure.</p> <p>Source: https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data</p>

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

CLUB DATA

The Launch Pro doesn't just look at the ball, but place one of the included markers to the face of your club to get accurate and consistent club data previously only attainable at much higher price points.

Source: <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>

Analysis: Shot Table

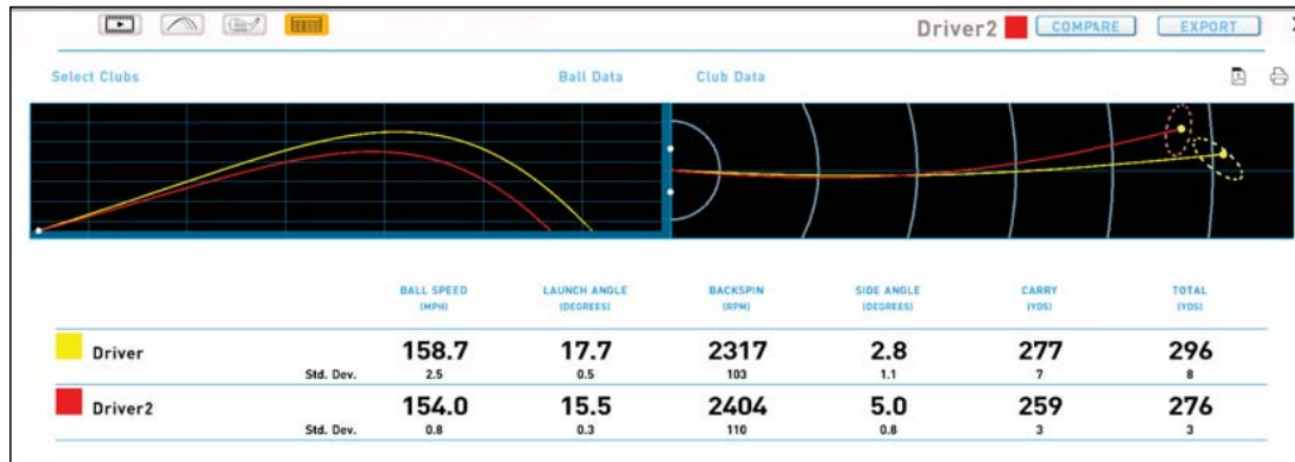
The shot table displays all shots that have been taken during the current session. All shots are grouped by club. You can toggle between flight and club data at any time by selecting the corresponding option at the top left of the screen. You can view the video, flight, or club analysis screens from a previous shot by left-clicking on the corresponding line of data.

		ID	BALL SPEED (mph)	LAUNCH ANGLE	SIDE ANGLE	BACKSPIN (rpm)	SIDESPIN (rpm)	DESCENT ANGLE	OFFLINE (yds)	PEAK (yds)	CARRY (yds)	TOTAL (yds)	
DELETE		Driver	156.0	17.5°	2.6° R	2450	450 L	47.6°	12.7 L	49	269	284	
		Driver	158.0	17.2°	4.3° R	2200	540 L	45.9°	12.3 L	47	277	291	
		Driver	162.0	18.4°	1.6° R	2300	140 L	48.4°	1.4 R	55	286	301	
		AVERAGE	158.7	17.7°	2.8° R	2317	377 L	47.3°	7.8 L	51	277	291	
		STD. DEV.	2.5	0.5°	1.1°	103	171	1.0°	6.6	3	7	8	
		Driver2	153.0	15.3°	5.0° R	2500	900 L	44.5°	23.7 L	40	255	271	
		Driver2	154.0	15.3°	6.0° R	2463	855 L	44.5°	17.4 L	41	259	271	
		Driver2	155.0	16.0°	4.0° R	2250	965 L	44.3°	36.1 L	41	262	271	
		AVERAGE	154.0	15.5°	5.0° R	2404	907 L	44.4°	25.7 L	41	259	271	
		STD. DEV.	0.8	0.3°	0.8°	110	45	0.1°	7.7	0	3	3	

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

Source: Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 15



You can compare multiple clubs in a session by selecting the **Compare** option at the top right of any of the analysis screens. Choose the clubs you wish to compare in the **Select Clubs** option at the top left of screen. You can compare up to 6 clubs at a time. You can toggle between ball and club data by selecting the corresponding option at the top of the screen. This page can be saved to PDF or printed by selecting the PDF or printer icons at the top right of the screen.

Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 16

Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.

[1.9] an
instruction
component
that produces

Company provides an instruction component that produces an instruction to instruct the user to change from the actual action of the user to the selected standard action for the user and a communication component that causes disclosure of the instruction.

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

<p>an instruction to instruct the user to change from the actual action of the user to the selected standard action for the user; and a communication component that causes disclosure of the instruction.</p>	<p>This element is infringed literally, or in the alternative, under the doctrine of equivalents.</p> <p>For example, the FSX software displays the current values and the average values in both the ball data and the club data metrics such that the user can access the different metrics after the game to utilize the metrics in improving the game. Therefore, upon information and belief, the metric reports available to the user in the software interface (“disclosure of the instruction”) after the game act as an instruction component that produces an instruction to instruct the user to change from the actual action of the user to the selected standard action for the user.</p> <div data-bbox="462 555 1904 709"> <p>Improve</p> <hr/> <p>Collect and analyze data for fitting and instruction, or practice your game on the driving range or golf course.</p> </div> <p>Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 4</p>
--	--

Complaint, Exhibit 2
Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

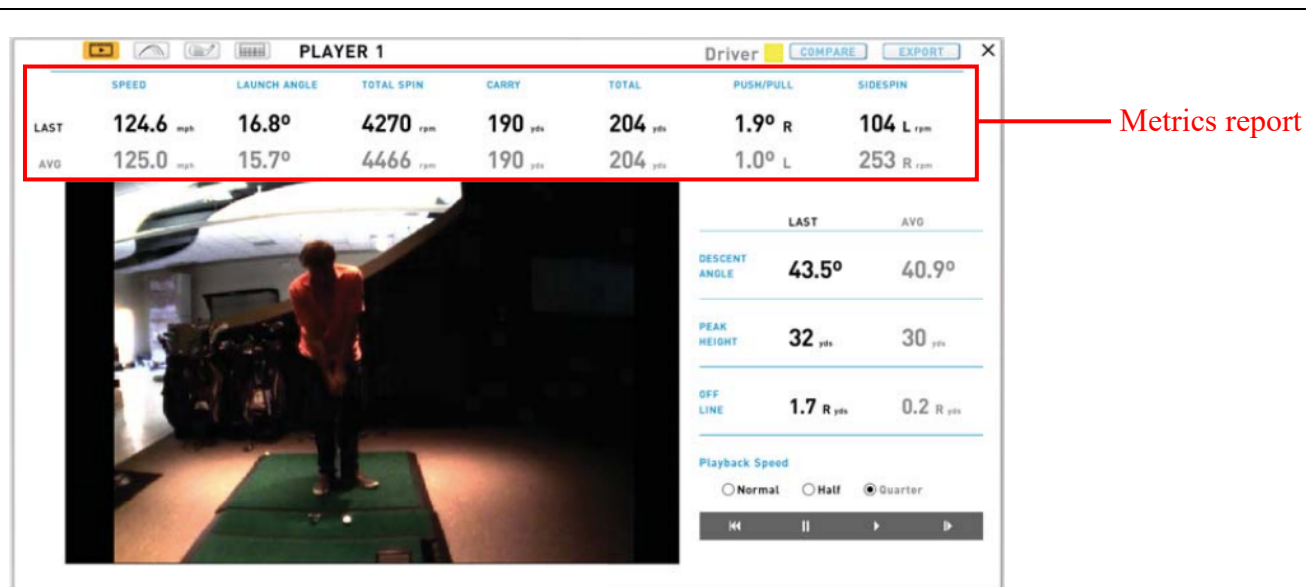
Analysis: Club Data



Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 16

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell



Source: https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, Page 15 (annotated)

Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Company.

Complaint, Exhibit 2

Wyoming Intellectual Property Holdings, LLC v.
Vista Outdoor, Inc. dba Bushnell

2. List of References

1. <https://www.bushnellgolf.com/launch-pro>, last accessed on 27 March, 2024.
2. <https://www.bushnellgolf.com/support/product-plm-launch-pro>, last accessed on 27 March, 2024.
3. <https://www.bushnellgolf.com/launch-pro/what-we-measure>, last accessed on 27 March, 2024.
4. <https://www.bushnellgolf.com/launch-pro/what-we-measure#ball-data>, last accessed on 27 March, 2024.
5. <https://www.bushnellgolf.com/products/launch-monitors/launch-pro/>, last accessed on 27 March, 2024.
6. <https://www.bushnellgolf.com/content/product/Support/User-Manual-Launch-Pro-Launch%20Monitor-Model-501000.pdf>, last accessed on 27 March, 2024.
7. <https://www.bushnellgolf.com/lp-club-versus-ball-enabled#:~:text=Ball%20launch%20data%20is%20measured,ball%20performance%20metrics%20we%20measure>, last accessed on 27 March, 2024.
8. https://support.foresightsports.com/sites/default/files/files/FSX_UserManual_v2-3_0908.pdf, last accessed on 27 March, 2024.
9. <https://www.bushnellgolf.com/products/launch-monitors/launch-pro/>, last accessed on 27 March, 2024.